NATIONAL DREDGING MEETING HURRICANE SEASON 2006
14 June 2006

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Corps Navigation Mission

Provide safe, reliable, efficient, effective and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recrea

HURRICANE SEASON 2006

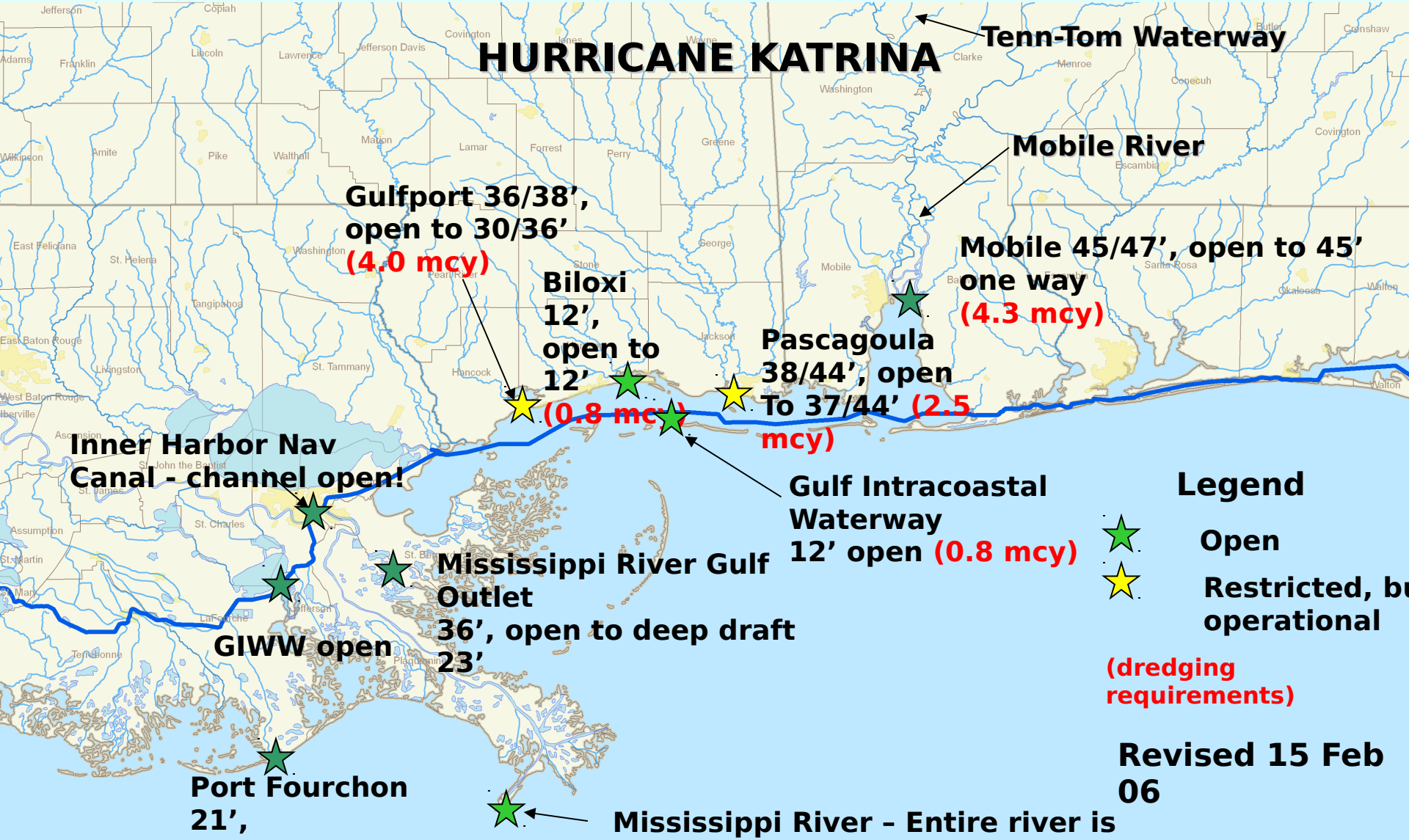
- **We are on Day 14 (TS Alberto is behind us!)**
- **Only 169 days left!**

HURRICANE SEASON 2005 LESSONS LEARNED

- **Partnering with other Federal agencies and with stakeholders was critical to getting major waterways back in operation quickly**
- **Communication networks were severely impacted initially and caused major problems – develop plans to address**
- **Knowing the status and availability of each dredge in the area likely to be impacted by major hurricanes is critical!!**
- **Exercise! Exercise! Exercise! (Practice makes perfect.)**
- **In the future, plan for the worst and we will be prepared.**

ELEMENTS OF PARTNERING

- **Pre-event planning**
  - Exchange POC contact info
  - COOP (Continuity of Operations) contact info if severely impacted – where, who, how to resume contact?
  - Establish an effective communication system
  - Determine the status of all dredges in the district/MSC/region
  - Have dredging contracts on-the-shelf (IDIQ? Other types?) – ready to go
  - Know dredging windows for each port, harbor or waterway
  - Have established an agreed-upon inter-agency and stakeholder response protocol
- **Post-event (ASAP) condition assessment and response action prioritization**
  - Critical to draw on available resources of other agencies and stakeholders – needed equipment, fuel supplies, assistance with channel surveys or Aids to Navigation placement
  - Work with other agencies and the nav industry to prioritize response
  - Communicate regularly during response and recovery
- **Post-event recovery actions**
  - Share Corps project status with USCG, nav industry, dredging organizations (?) and other stakeholders


HURRICANE KATRINA
Tenn-Tom Waterway
Mobile River
Gulfport 36/38', open to 30/36' (4.0 mcy)
Biloxi 12', open to 12' (0.8 mcy)
Mobile 45/47', open to 45' one way (4.3 mcy)
Pascagoula 38/44', open To 37/44' (2.5 mcy)
Inner Harbor Nav Canal - channel open!
Gulf Intracoastal Waterway 12' open (0.8 mcy)
Mississippi River Gulf Outlet 36', open to deep draft 23'
GIWW open
Port Fourchon 21', operational
Mississippi River – Entire river is open
Legend
Open
Restricted, bu operational
(dredging requirements)
Revised 15 Feb 06

Dredging Underway: GIWW (Apalachicola Area) - Inland; Tenn-Tom WW - Crosby; Mobile Bay - Hooks; Panama City Beach – Weeks; Gulfport Sound – Hooks; Biloxi, Ms – Hooks; Mississippi River – Manson; East Pass, FL – Hooks; Dauphin Island – Hooks. Anticipated Dredging: Panama City – Inland (Feb 06)

HURRICANE RITA SWG
HOUSTON SHIP CHANNEL TRIBUTARIES
Barbour's Terminal, 42', open 29', ($2,500K)
Bayport Ship Ch., 42', open 34', (0.85 mcy)
Channel to Port Bolivar 14', open 9', (0.1 mcy)
Chocolate Bayou 14', open 6', (3.0 mcy)
Beaumont, 40', open
Houston, 45', open (1.9 mcy)
Calcasieu River
Leland Bowman
New Orlean
Gulf Intracoastal Waterway (1.2 mcy)
Texas City, 40', open (0.3mcy)
Port Arthur, 42', open
Galveston, 40', open, (0.3mcy)
Freshwater Bayou
Atchafalaya River
Victoria
Freeport, 47/45', Open, (0.6 mcy)
Calcasieu Lock
Port Fourchon
Sabine Neches Channel 40', open (6 mcy)
Port Lavaca
Corpus Christi (0.70 mcy)
Legend
Open
Restricted, but operational
(dredging requirement - volume mcy)
Revised 15 Feb 0
Dredging Completed: Galveston Harbor & Channel – Hooks. Dredging Underway or Awarded: Corpus Christi SC – King Fisher (Oct 05 – Jan 06); Houston SC – LaQuay (Jun 05 – Dec 05); Brazos Island Main Channel to Turning Basin (awarded 29 Dec 05) (Jan – Apr 06); Channel to Victoria Middle Reach 28 Dec 05 (Feb-Mar 06):; Houma Nav Channel – Tom James. Pending Award: Matagorda SC Peninsula to Point Comfort – 3-6 Jan 06; Freeport – 23 Dec 05 (Dec 05 – Feb 06); GIWW Main Channel in Matagorda Bay – 3-6 Jan 06 (Jan – Mar 06). Pipeline Dredging Anticipated: Sabine Neches WW (Jan – Sep 06); GIWW – Colorado R to Matagorda Bay – postponed; Texas City (Feb – May 06); Bayport (Mar – May 06); Victoria (May – Sep 06). Hopper Dredging Anticipated: Sabine Neches WW (Mar –

Legend
Open
Operational, restricted
Closed
HURRICANE WILMA
GIWW
Tampa - impacts are due to Katrina, not Wilma
Lake Okeechobee Route 2 still restricted by debris
Venice Inlet impacts are pre-Wilma
Naples
Ft. Myers
Okeechobee Waterway 8’
WP Franklin L&D
Ortona L&D
Moore Haven L&D
Port Mayaca L&D
St. Lucie L&D
Canaveral Harbor
Canaveral Barge Canal
IWW 10’, open w/restrictions
Indian River Lagoon 10’, still awaiting wreck verification by USCG
St. Lucie Inlet 10/16’, open 7.7/10’ Dredging to begin 7 Apr 06
Jupiter Inlet 10’, open 6.3’
Lake Worth Inlet 12’, open to 7’ dredging planned for Apr 06
Palm Beach jetty damaged being evaluated
Port Everglades
Bakers Haulover Inlet 10’, shoaled to 1.5’ (Env mod still not resolved dredging must be completed 30 Apr 06)
Miami Harbor
Miami River 15’ – restricted by shoaling and 2 wrecks – dredging expected 4th quarter ‘06
Key West 17’, open to 10’
Revised 15 Feb 06

A VERY WISE PHILOSOPHER HAS SAID (MANY TIMES):